SIDHYA ASIA
CHEMICAL PRIVATE LIMITED

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PRODUCT DATA SHEET

Sidhya® Pro Cure 105 (WB)

Wax Based Curing Compound.

Description

Sidhya® Pro Cure 105 (WB) is a ready to use liquid curing compound applied on concrete structures to form a thin film barrier. The product prevents water loss in concrete due to heat of hydration and hence prevents shrinkage cracks and ensures achievement of design strength of concrete. Sidhya® Pro Cure 105 (WB) eliminates the need for water curing for major infrastructure projects like highways, runways, roof decks and precast concrete applications.

Applications

Sidhya® Pro Cure 105 (WB) is a solvent free wax based curing compound which promotes cement hydration. The product is white lump free liquid improves the light reflectance of concrete and hence can be used for the below applications:

- Construction of highways.
- Construction of runways and taxiways.
- Precast concrete elements such as tunnel segments, bridge girders and culverts etc.
- Decorative precast elements as it does not change color of elements.
- Construction of mass warehouse flooring.
- Construction of roof decks and bridge slab decks.

Applications

Sidhya® Pro Cure 105 (WB) should be sprayed on precast concrete segments. The concrete substrate should be free from water, oil and stains. Application should be made with low pressure sprayer uniformly or using brush/roller application on concrete surface. Rate of application can vary from 125 – 250 g/m^2 of concrete surface depending on wind, humidity and temperature.

Technical Specifications

Chemical Base	Aqueous Wax Emulsion
Color	Milky White
Appearance	Homogenous
State	Lump free liquid
Specific Gravity	0.99 ± 0.02 @ 20^0C
pH	Minimum 6.0
Chloride Ion Content	<0.10%
Alkali content	<1.5 g Na^2O equivalent / liter of admixture.
Shell Life	12 months from the date of manufacturing if stored as per recommendations and original sealed packing.

Advantages

Sidhya® Pro Cure 105 (WB) is a sustainable product which can provide the following benefits when used in construction sites:

- Reduces dependency on water at construction sites with no proper water source.
- Promotes sustainability and green concrete as it eliminates water curing.
- Reduces plastic shrinkages and surface cracks.
- Improves the light reflectance of concrete.
- Reduces surface dust formation.
- Improvement in strength against abrasion.
- Ensures similar strengths as water curing.
- Reduces loss of water from the surface due to wind, humidity and heat.

Dosage

The recommended dosage of Sidhya® Pro Cure 105 (WB) should be between 125 – 250 grams per Square meter. The optimum dosage of the Sidhya® Pro Cure 105 (WB) should be determined by preliminary trials at site. The product can be used both Spray and rolling method. However homogenous application can be achieved via spraying.

The dosages above recommendations can be used if agreed by the client and consultant for special applications along with consultation of Sidhya® technical team.

Compatibility

Sidhya® Pro Cure 105 (WB) is compatible with all types of cement and binders such as GGBS, Ultra Fine GGBS, Micro silica, Fly ash and Metakaolin in the substrate base. Sidhya® Pro Cure 105 (WB) when spraying along the substrate concrete should be free from dust, water, oil and stains.

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Technical Compliances

Sidhya® Pro Cure 105 (WB) conforms to the requirements of ASTM C 309-89 Type 2 Class A

Storage

Sidhya® Pro Cure 105 (WB) has a shell life of 12 months provided the temperature is kept between +1.0^{0}C to +50.0^{0}C. Please contact Sidhya® technical team if the product falls outside the temperature range.

Packaging

Sidhya® Pro Cure 105 (WB) is available in 200 kg drums, 1000 kg IBC and bulk tanker. Please contact our Sales Representative for customized packing and more details

Legal Notice

The recommendations related to the application and recommendations are given in good faith based on Sidhya's current experience and knowledge of the products. The benefits stated about the product are only applicable if guidelines provided by Sidhya for storing, handling and mixing are followed under normal conditions. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product is always advised to test the product's compatibility and suitability for the intended requirements and application. Sidhya reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned copies of which will be supplied on request.

Sustainability, Health and Safety

End use of the product must read the Material Safety Data Sheet (MSDS) of the product. The MSDS provides information and advice on storage, handling and disposal of the product and instructions related to physical ecological, toxicological and other safety related data.

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